15-57-8-11508

Referativnyy zhurnal, Geologiya, 1957, Nr 8, Translation from:

p 204 (USSR)

AUTHOR: Simonenko, T. N.

Aeromagnetic Interpretation of the Top Surface Basement TITLE:

Structure in Western Siberian Lowland (Ispol'zovaniye resul'tatov aeromagnitnoy s"yemki dlya vyyasneniya struktury poverkhnosti fundamenta Zapadno-Sibirskov

nizmennosti)

Inform. sb. Vses. n.-i. geol. in-t, 1956, Nr 3, PERIODICAL:

pp 96-102

Aeromagnetic surveys are commonly used for determining ABSTRACT:

the extent of folded zones and for contouring individual intrusions in plain regions. First, a contour map of the magnetic anomalies of the area (the Western Siberian Lowland) was prepared. The area was then mapped from the aeromagnetic survey data to the scales of 1:1000000

and 1:200 000. The depth to the intruding bodies was Card 1/2

15-57-8-11508 Aeromagnetic Interpretation of the Top Surface Basement (Cont.)

usually determined as the average of the depths determined by standard methods and also by the integral method of T. N. Simonenko. The author evaluates the accuracy of determination of the depths of the bed as 15 percent. A description of the structural map is given.

Card 2/2

V. M. Devitsin

SIMOHENKO, T.H.

Aereomagnetic surveying abroad. Inform. sbor. VEGEI no.4:150156 '56. (Magnetism, Terrestrial)

ROZE, T.N.

A contour diagram of the surface of magnetic masses of folded basic rocks in the West Siberian Lowland. Dokl.AN SSSR 106 no.5:897-900 (MIRA 9:7)

l. Vsescyuznyy nauchno-issledovatel skiy geologicheskiy institut. Predstavleno akademikom N.S. Shatskim. (Siberia, Western--Prospecting--Geophysical methods)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550710011-0"

CIA-RDP86-00513R001550710011-0 "APPROVED FOR RELEASE: 08/23/2000

15-57-10-14539

Referativnyy zhurnal, Geologiya, 1957, Nr 10, Translation from:

p 193 (USSR)

AUTHOR:

Roze, T. N.

TITLE:

The Determination of Some Characteristics of Mineral Deposits by Magnetic and Gravitational Observations (Opredeleniye nekotorykh kharakteristik zalezhi po

magnitnym i gravitatsionnym nablyudeniyam)

PERIODICAL:

Materialy Vses. n.-i. geol. in-ta, 1956, Nr 8,

pp 195-207

ABSTRACT:

The formula of Poisson, well-known in the theory of potential, unites magnetic (U) and gravitational (W) potentials. From magnetic and gravitational observations, it is possible to define the ratio I/o, where I is the excess intensity of magnetization and o is the excess density of the body. Equations are given for calculating I/c for two-dimensional bodies with vertical and inclined magnetization. An expression for I/o is

Card 1/2

15-1957-3-3670

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 3,

p 168 (USSR)

AUTHOR:

Roze, T. N

TITLE:

Depth Approximation to Magnetized Bodies (Priblizhenmaya

otsenka glubiny zaleganiya namagnichennykh tel)

PERIODICAL:

Materialy Vses. n-i geol. in-ta, 1956, Nr 8, pp 208-

ABSTRACT:

A number of formulas are obtained for evaluating the depths to magnetized bodies of arbitrary form, using the relationship between vertical values of the magnetic field z and the horizontal distance x. The author begins with the asymptotic behavior of the component \underline{z} at infinity and with the theorem of Gauss on the passage of a vector through a surface. Having obtained formulas for bodies of simple geometric form, he then shows, with numerous examples, their usefulness for bodies of arbitrary forms. For a two-dimensional layer with the lower boundary at infinite depth, the depth of

Card 1/4

15-1957-3-3670

Depth Approximation to Magnetized Bodies

the upper boundary of the layer may be calculated by the equation

$$h = \pi \frac{\lim(x^2Z)x^{-1/2}}{\int_{-\infty}^{\infty} Zdx}$$

The calculation shows that with a definite value \underline{x} , equal to only $4\underline{h}$ or $5\underline{h}$, the accuracy approaches 3%. For two-dimensional layers with finite depths, the center of gravity of the section is

$$h_c = \frac{\lim(x^2Z)x \longrightarrow \infty}{\int_{a}^{a} Zdx},$$

where \underline{a} is the abscissa point on the profile at which Z is the measured value. To shorten the profile (a necessity in making calculations), the author found the relationship between the Card 2/4

15-1957-3-3670

Depth Approximation to Magnetized Bodies (Cont.)

magnetic moment of a unit length of a cylindrical body and the maximum value of $\underline{x}^2\underline{z}$. From these he obtained the equation

$$h_c = \frac{8(x^2Z)_{max}}{\int_a^\infty Zdx},$$

which is true for layers with thicknesses not greatly in excess of the depth to the body. Then a formula is obtained for the determination of depth to the upper edge of a body bounded in a horizontal direction along the strike but unbounded at depth;

$$h = \frac{\lim(a^3Z) = -\infty}{\int_a^\infty \int_a^\infty Zdy^2},$$

where ρ is the distance from z_{max} to the point of observation. For three-dimensional layers of finite thickness, the formulas Card 3/4

15-1957-3-3670

Depth Approximation to Magnetized Bodies

below are proposed:

$$h_{c} = \frac{0.385 \lim \rho^{3} Z \rho \longrightarrow \infty}{\int_{0}^{\alpha} \rho^{2} d\rho} \quad \text{and} \quad h_{c} = 1.04 \quad \sqrt{\frac{\lim(\rho^{3} Z) \rho \longrightarrow \infty}{\int_{0}^{\alpha} Z d\rho}}.$$

These are obtained by assuming a spherical body. Another equation is cited for use when the profile has a finite length:

$$h_{c} = \frac{1.91 (\rho^{3} z)_{max}}{\int_{0}^{\infty} \rho z d\rho}$$

The application of the formulas is illustrated by numerous tables and calculations; the defects are also indicated.

Go I. K.

SIMONBORO, Tatlyana Nikolayevna (AU Sci-Res Gool Inst) awarded sci degree of Doc Physico-Math Sci for the 28 Oct 57 defense of dissertation: "Problem of determining the structure of the a buried folded substructure through data of aereomagnetic survey" at the Council, Leningrad State Univ imeni Zhdanov; Prot No 17, 21 Jun 58. (BXVO, 12-58,21)

ALESKEROVA, Z.T.; KRITSUK, G.S., LI, P.F., LITVINENKO, I.V.; OSADCHAYA, D.V.; OSTROUMOVA, A.S.; OSYKO, T.I.; RAVDONIKAS, O.V.; BOSTOVTSEV, N.N.; SIMONENKO, T.N.; TOLSTIKHINA, M.A.; EHBSIN, B.E.; BABINTSEV, red. 12d-Va; KRINOCHKINA, K.V., tekhn.red.

Geological structure and oil-producing prospects of the West Siberian Plain Geologicheskoe stroenie i perspektivy neftegazonosnosti Zapadno-Sibirskoi nizmemnosti. Pod obshchei red. N.N.Rostovtseva. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr, 1958. 390 p. (MIRA 11:12)

1. Leningrad. Vsesoyuznyy geologicheskiy institut. (West Siberian Plain--Petroleum geology)

3

Oil and gas prospecting in the West Siberian Plain. Geol.nofti.i
gaza 3 no.5:8-13 Je '59.

1. Sibirskiy nauchno-issledovatel'skiy institut geologii, geofiziki
i mineral'nogo wyr'ya.

(West Siberian Plain--Petroleum geology)
(West Siberian Plain--Gas, Natural--Goology)

ROSTOVTSEV, N.N.; SIMONENKO, T.N.; UMANTSEV, D.F.

Structure of the folded basement of the West Siberian Plain.
Trudy SNIIGGIMS no.1:11-17 159. (MIRA 15:4)
(West Siberian Plain—Geology, Structural)

经分析的分类 不过是对此,就是这个是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们

S/169/61/000/005/003/049 A005/A130

3.9110 (1121,1482)

AUTHOR:

Simonenko, T.N.

TITLE:

The computation of the derivatives of a "pseudogravitational" field from magnetic survey data for the case of the plane problem

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 5. 1961, 30, abstract 5 A 257. (Tr. In-ta geol. i geofiz. Sin. otd. AN SSSR, 1960, no. 1, 55-58)

Using the Poisson theorem for two-dimensional bodies and TEXT: assuming the body to be magnetized in the direction of the earth's field, the author submits formulae which, for given values of the vertical component of an anomalous magnetic field or the values of ΔT , enable one to plot curves for those vertical and horizontal components of the said field that are exempt from the influence of inclined magnetization.

curves correspond to the and 24 curves of the "pseudogravitational"

[Abstractor's note: Complete translation.] Card 1/1

是是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们

SIMONENKO, T.N.

Determining the direction of magnetism of bodies in place of their occurrences. Geol. i geofis. no.2:137-141 60. (MIRA 13:9)

1. Vsesoyusnyy nauchno-issledovatel skiy geologicheskiy institut.
(Rocks--Magnetic properties)

MAROCHKIN, N.I., glavnyy red.; MARKOVSKIY, A.P., zamestitel' glavnogo red.;

TATARINOV, P.M., zamestitel' glavnogo red.; BELYAKOVA, Ye.Ye.,

nauchnyy red.; GANESHIN, G.S., red.; ZAYTSEV, I.K., red.; KULIKOV,

M.V., red.; KUREK, N.N., red.; KNIPOVICH, Yu.N., red.; LUR'YE, M.L.,

red.; SIMONENKO, T.N., red.; SPIZHARSKIY, T.N., red.; STERLIN, D.Ya.,

red.

[Results of the research carried out by the All-Union Geological Institute in 1959] Eshegodnik po rezul'tatam rabot VSEGEI za 1959 g. Leningrad, Otdel nauchno-tekhn.informatsii VSEGEI, 1961. 195 p. (Informatsionnyi sbornik, no.44). (Geology)

是国际家的表示的研究的处理部分部位的国际和政策的企业中和主任的政策的对象。"如果不是国际的,我们可以是国际的,我们可以是国际的,我们的对于这种企业和企业中的对象的。 第一一

MARCCHKIN, N.I., glav. red.; MARKOVSKIY, A.P., zam. glav. red.;

UL'YAMOV, N.K., zam. glav. red.; GANESHIN, G.S., red.;

ZAYTSEV, I.K., red.; KNIPOVICH, Yu.N., red.; KULIKOV, M.V., red.;

LABAZIN, G.S., red.; LUR'YE, M.L., red.; SINGIENEG, T.N., red.;

SPIZHARSKIY, T.N., red.; STERLIN, D.Ya., red.; TATARINOV, P.M., red.;

MELYAKOVA, Ye.Ye., nauchnyy red.; MAKRUSHIN, V.A., tekhn. red.

[Yearbook of the results of studies by the All-Union Geological Institut] Ezhegodnik po rezul'tatam rabot VSECEI. Leningrad, Otdel nauchn.-tekhn. informatsii, 1961. 203 p. (Leningrad. Vsesoiyznyi geologicheskii institut. Informatsionnyi sbornik, no.49.)

(Geology)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550710011-0"

SIMONENKO, T.N.

Use of magnetometric data for studying crustal deep structure of platform areas. Sov.geol. 5 no.8:3-15 Ag '62. (MIRA 15:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut.
(Earth—Surface)

5/215/62/000/008/001/002 1046/1246

AUTHOR:

Simonenio, T.H.

TITLE:

The use of magnetometric data in studies of the abyssal structure of

the earth's crust in platform regions .

Govetskaya geologiya, no. 8, 1962, 3-15

TAXT: Geophysical materials collected by IZMIR AN SSSR (Institute of the Terrestrial Magneticm, the ronosphere and Propagation of Radiowaves AS USSR) all over the USSR show that the existence of the continental anomalies cannot be due to the effect of the earth's crust, and that the behavior of the basaltic layer in the crust does not affect the distribution of the geomagnetic field. The anomalies detectable on the background of the normal geomagnetic field originate in thermally magnetized geological bodies in the granitic layer; thus, in principle, the thickness of the granitic layer in the earth's crust on the continents can be determined from magnetometric measurements. There are 5 figures and 1 table.

Card 1/2

The use of magmetometric data....

ASSOCIATION: Vsesoyucnyy neuchno-issledovatel'skiy geologicheskiy institut
(The All-Union Scientific Research Geological Institute)

DEDEYEV, V.A.; NALIVKIN, V.D.; SIMONENKO, T.N.; SOKOLOV, V.N.; SHABLINSKAYA

Structure of the Pre-Middle Jurassic basement of the West Siberian Plain in the light of new data. Sov. geol. 5 no.7:26-40 J1 '62. (MIRA 15:7)

l. Vsesoyuznyy neftyancy nauchno-issledovatel'skiy geologorazvedochnyy institut. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut i Nauchno-issledovatel'skiy institut geologii Arktiki. (West Siberian Plain--Folds (Geology))

SIMONENKO, T. N.

Importance of magnetic measurements in the oceans to studies of the structure of the earth's crust.

Title: Conference on problems of marine magnetic surveys (held in Moscow in

April 1962. Source: Okeanologiya, v. 3, no. 4, 1963, p. 752

GURARI, F.G.; KAZARINOV, V.P.; MIRONOV, Yu.K.; NALIVKIN, V.D.;

NESTEROV, I.I.; OSYKO, T.I.; ROVNIN, L.I.; ROSTOVTSEV,

N.N.; RUDKRVICH, M.Ya.; SIMONENKO, T.N.; SOKOLOV, V.N.;

TROFIMUK, A.A.; CHOCHIA, N.G.; ERV'YE, Yu.G.;

OMBYSH-KUZNETSOV, S.O., red.; LOKSHINA, O.A., tekhn.red.

[Geology and oil and gas potentials of the West Siberian Plain, a new tank farm of the U.S.S.R.] Geologiia i neftegazonosnost' Zapadno-Sibirskoi nizmennosti-novoi neftianoi bazy SSSR. Novosibirsk, Izd-vo Sibirskogo otd-niia, 1963. 199 p. (MIRA 17:1)

SIMONENKO, T.N.; TOLSTIKHINA, M.M.

Convergence of the Ural Mountains and the Russian Platform.

Trudy VSEGEI 85:131-135 '63. (MIRA 16:11)

SIMONFNKO, T.N.; TOLGTIZHINA, M.M.

Some characteristics of the abyasal structure of the U.S.S.R. Sov. geol. 8 no.4474-89 Ap 165. (MIRA 18:7)

1. Vsesoyuznyy nauchnowiesledovatel'skiy geologicheskiy institut.

NALIVKIN, V.D.; DEDEYFV, V.A.; IVANTSOVA, V.V.; KATS, Z.Y.; KRUGLIKOV, N.M.;
LAZAREV, V.S.; SVFRCHKOV. G.P.; CHERNIKOV, K.A.; SHABLINSKAYA, N.V.;
Prinimal uchastiye: ZHABREV, I.P.; ROZANOV, L.N.; SOFRONITSKIY, P.A.;
KHAIN, V.Y.; SIMONENKO, T.N.; SOKOLOV, V.N.; YAKOVLEV, O.N., gidrogeolog

[Comparative analysis of the oil and gas potential and ++ + tactomics of the West Siberian and Turan-Scythian platforms.] Sravnitel nyi analis neltegazonosnosti i tektoniki Zapadno-Sibirskoi i Turano-Skirskoi plit. Leningrad; Nedra, 1965. 322 p. (Leningrad. Vsesoiuznyi neftianoi nauchno-issledovatel skii geologorazvedochnyi institut. Trudy, no.236) (MIRA 18:6)

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ACC NR: AT6028375

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SOURCE CODE: UR/0000/65/000/000/0104/0110

AUTHOR: Simonenko, T. N.

orc: none

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1

TITLE: Anomalous magnetic field and tectonics of the USSR

SOURCE: International Geological Congress. 22d, New Delhi, 1964. Geologicheskiye rezul'taty prikladnoy geofiziki (Geological results of applied geophysics); doklady sovetskikh geologov, problema 2. Moscow, Izd-vo Nedra, 1965, 104-110

TOPIC TAGS: magnetic field, magnetic anomaly, earth magnetism, platform, sedimentary rock, tectorica

ABSTRACT: This article presents some aspects of the anomalous magnetic field and tectonic structure of the USSR. The distribution of magnetic anomalies in the USSR is shown on a map compiled from aeromagnetic AT survey data and from airborne and land AZ survey data. The Earth's uniform magnetization and world anomalies are represented as the normal field. In a weak field, the smallest interval between the (AT)a isoline is 100 gammas. As a results of the aeromagnetic survey, certain differences have been established between characteristics of the magnetic field of ancient platforms and of Epihercynian platforms and folded areas of different ages. The magnetic field of Precambrian platforms, particularly that of the Russian platform, clearly reveals the block character of the folded basement structure. Some blocks of the basement extending for 100 km are shown as areas of a specific magnetic field which Card 1/2

MH\MG FBD/EWT(1)/EWT(m)/EEC(k)-2/T/EWP(k)/EWA(h) IJP(c) SOURCE CODE: UR/0051/66/020/005/0853/0858 L '277213-66 Simonenko, T. V.; Urnis, Dukhope1 ORG: none TITLE: Investigating the peak coherence of ruby laser emission SOURCE: Optika i spektroskopiya, v. 20, no. 5, 1966, 853-858 TOPIC TAGS: laser emission, ruby laser, light interference, laser emission coherence ABSTRACT: The authors study the integral coherence of laser emission together with emission coherence at isolated peaks. The specimens used were 6 cylindrical ruby crystals with diameters of 6.5 and 13 mm measuring 65 and 80 mm in length respectively with dielectric coatings on the end or placed in a resonator with plane mirrors. All specimens were oriented at 90 degrees to the optical axis and 4 of the crystals had polished lateral surfaces. The other 2 cylinders were frosted on the sides -- one completely and the other partially. Radiation from the specimen was sent through a diaphragm with 2 narrow vertical slits and a section of the interference field formed was then cut off by a horizontal slit and photographed. It was found that interference patterns are formed at all peaks regardless of crystal quality, the distance between vertical slits in the diaphragm, or the level of pumping energy. The pattern contrast is extremely high for most of the peaks. Most of the interference patterns UDC: 621.375.9: 535 Card 1/2

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ACC NR: AP6015429

show a characteristic relative shift in the interference bands at the individual peaks. This shift is usually lower at the beginning and end of emission, increasing noticeably at the midpoint. The shift is irregular, sometimes taking place extremely slowly and sometimes reaching half the width of the interference band in adjacent peaks. Among the fundamental causes for this relative shift are: 1. A change in band width due to variations in wavelength during emission, 2. A variation from peak to peak in the inclination of the beams falling on the diaphragm with vertical slits, 3. A change from peak to peak in the phase difference between the sections of the waves cut off by the slits. It is shown that the first effect is insignificant. The effect of a change in beam inclination on the band shift at the peak is experimentally confirmed. These experiments also show that there is coherent interaction between beams traveling in different directions as well as between beams emitted by different sections at the end of the laser. In conclusion the authors thank V. P. Linnik for directing this work. Orig. art. has: 6 figures.

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Card 2/2

Practice on virgin coil. Practick's obr. 18 no.1:18 Je '61.

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1. homeolemnoye uchilinde e.e. a comizatail sel'ate o la carayatra No.6, Samakaya oblest'.

(Sumy Prevince -- Practice of mination--Study and teaching)

SEMONERKO, V., master proizvodstvennogo obucheniya

Technical control in a group. Prof. tekhn. obr.21 nc.11:21 N '64 (MIRA 12:2)

1. Professional no-tekhnicheskoye uchilishche No.3, Klintsy.

SIMONENKO, V., kand. geograf. nauk, dotsent

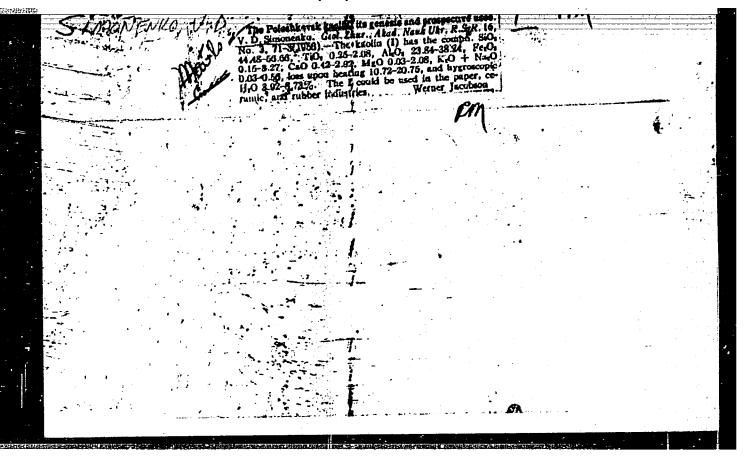
Famous captain of the icebreaker fleet. Mor. flot 25 no.10: 41-42 0 '65. (MIRA 18:11)

1. Luganskiy pedagogicheskiy institut imeni T.G. Shevchenko.

L 45386-65 EVIT (1)/EVIP (m)/EPA(s)-2/EPF(n)-2/EVIG(v)/EMA(d)/EPR/FCS(k)/EWA(h)/EWA(c)/ EWA(1) Pd-1/Pe-5/Ps-4/Pt-7/Pi-4/Pu-4 W UR/0040/65/029/002/0334/0336 ACCESSION NR: AP5010632 63 Zababakhin, Ye. I. (Moscow); Simonenko, V. A. (Moscow) AUTHORS: Converging shock wave in heat-conducting gas TITLE: SOURCE: Prikladnaya matematika i mekhanika, v. 29, no. 2, 1965, 334-336 TOPIC TAGS: shock wave, heat conduction, radiation heat transfer, adiabatic flow, specific heat ratio, pressure distribution ABSTRACT: The temperature distribution behind a converging shock wave was determined analytically. First, the case of a planar wave is considered, and in the usual gas dynamic conservation equations the following radiation energy term is $\frac{d}{3} \frac{d}{dx} \left(\frac{A}{c} \sigma T^4 \right)$. Solving these equations for the half width S of the heated region shead of the shock, the following simple expression is obtained $(\gamma = 1.4)$ $S = 1.73 \cdot 10^{-3} \cdot \frac{Lo\mu^4D^4}{2R^4}$. For a converging wave $D = A/r\alpha$, $\alpha = 0.395$, and the resulting expression for the maximum temperature is given by $T_{\text{max}} = \text{const } \rho_0^{0.365} R^{0.060} \mu^{-0.060} A^{0.673} (L_{\odot})^{-0.365}$. This shows that in the presence of thermal conduction (radiation) the shock wave temperature is finite but arbitrary,

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我们的时期中国的数据的建筑的处理的数据通过数据<mark>线理经验的数据数据表现</mark>实现的数据的现在分别,然后由1850年的时代,在1950年的基础,这种成年进行,1950年的1950年,1950年的1950年,1950年,1950年,1950年

Calendar of noteworthy dates. Geog. v shkole 25 no.4:86-38
Jl-ag '62.

(Arsen'ev, Vladimir Klavaievich, 1872-1930)
(Voronin, Vladimir Ivanovich, 1890-1952)
(Sedev, Georgii IAkovlevich, 1877-1914)

Methods of studying the hydrogen sulfide content of natural gases.

Gaz.prom. 5 no.6:11-13 Je '60. (MIHA 13:6)

(Gas. Natural) (Hydrogen sulfide)

SIMONENKO, V.F., starshiy agronom

Practices in controlling whiteflies. Zashch. rast. ot vred. i bol. 6 no.12:33 D '61. (MIRA 16:5)

ALEKSIN, A.A.; SIMONOMO, V.F.

Specific gravity of formation waters as an indicator of hydrodynamic conditions in Paleczeic sediments in the southeastern part of the Russian Platform. Trudy VILIGAZ no. 25:95-102 *65. (HEA 16:12)

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经运动的基本的数据的数据的数据的数据的表达的主要的数据表示的。如此对于多个,不是实现的内型。并不是一种用于多数的工作的对于,但是一种的对比的对于一种的人们的一种。

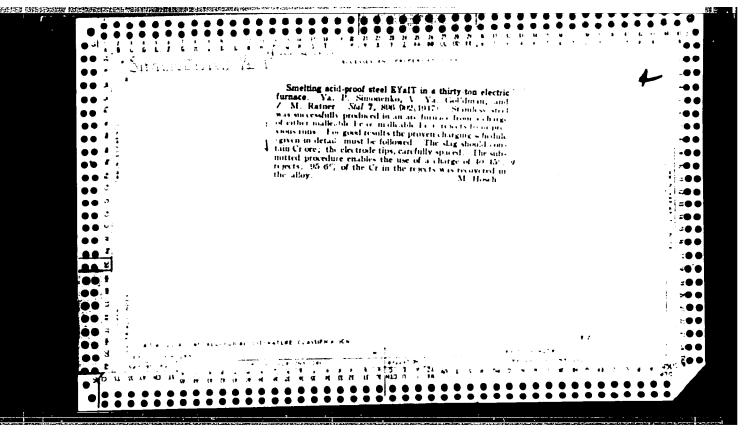
SIMONENKO, V. I.

Cand Phys-Math Sci - (diss' "Study on the theory of singular integrals, boundary problems of analytic functions, and singular integral equations." Tbilist, Pub. Academy of Sciences Georgian SSR, 1961. 6 pp; (Academy of Sciences Georgian SSR, Tbilisi Mathematics Inst imeni A. M. Razmadze); 200 copies; free; bibliography on pp 5-6 (12 entries); (KL, 6-61 sup, 195)

SIMONENKO, V.K. [Symonenko, V.K.], student biolog.fakul'teta; VOROB'EV, A.I. [Vorobiov, A.I.], prof., nauchnyy rukovoditel'; SAGAYDAK, I.M. [Sahaidak, I.M.], dots., nauchnyy rukovoditel'

Studies on intergeneric vegetative hybridization of tonatoes with the Bolgarskii 14 eggplant. Pratsi Od.un. Zbir.stud.rob. 149 no.5:183-185 '59. (MIRA 13:4)

1. Odesskiy gosudarstvennyy universitet.
(Tomatoes) (Eggplant)



	MONENKO, Ye.			
*	Tugboat hook with 43 0 '60.	semiautomatic recoil.	Rech. transp. 19 no.10: (MIRA 13:11)	
	45 0 000	(Tugboats)	•	

ALERSEYEV, A.G.; SIMONENKOW, Ye.A.; CHICHERIN, Yu.G.

Knurling key gaps in toothed clutches. Mashinostroitel'
no.12:27-28 D '63.

(MIRA 17:1)

GOLOVNINA, M.V. [Holovnina, M.V.], prepodavatel; CHERNITSKAYA, M.V.

[Chernyts'ks, M.V.]; prepodavatel; RUDA, O.Ys., prepodavatel;
PANCHENKO, Z.P., prepodavatel; CLEYNIKOVA, G.F. [Olieinykova,
H.F.], prepodavatel; VIRTEL', L.M., prepodavatel; YAMPOL'SKAYA,
A.M. [IAmpol's'ks, A.M.], prepodavatel; ALEKHNO, S.T., prepodavatel'; CKREPILOVA, E.P. [Okrepylova, IE.P.], prepodavatel';
SIMONENKO, Ys.M. [Symonenko, E.M.], prepodavatel'; TSIGEL'MAN,
F.M., prepodavatel'; SHCHEPELYAYEVA, O.P. [Shchepeliaieva, O.P.],
prepodavatel'; ZAIKA, N.P., prepodavatel'; BARSUKOVA, M.M.,
prepodavatel'; IZAROVA, N.O., prepodavatel'; IVCHENKO, T.P.,
prepodavatel'; NEKRASOVA, K.S., prepodavatel'; ALEKSEYEVA, P.O.
[Aleksieieva, P.O.], prepodavatel'; GAVRILOVA, G. [Havrylova, H.],
red.; GORKAVENKO, L. [Horkavenko, L.], tekhn.red.

[Dressmaking] Krii ta shyttia. Vyd.6, perer. i dop. Kyiv, Derzh.vyd-vo tekhn.lit-ry URSR, 1960. 692 p. (MIRA 14:2)

(Dressmaking--Pattern design) (Sewing)

是自然的运动的现在分词,但可以在1970年的中国的中国中国的中国中国的企业的企业的企业的企业,但是一个企业的企业的企业的企业的企业的企业,但是一个企业的企业的企业的

SIMONINKO, Z.A.

Characteristics of the functional state of the uterus in parturients with premature bursting of waters. Akush. i gin. 39 no.33 92-96 My-Je'63 (MIRA 1782)

1. Iz kafedry akusherstva i ginekologii (rukovoditel* - prof. A.G. Butylin) Kurskogo meditsinskogo instituta.

SIMONAMOU, Z.A.

Study of the functional activity of the aberds in parturents in premature birsting of waters by the method of two-channel external hystorography. Sbor. trui. Kursk. gos. med. inst. no.16:281-286 (MicA 17:9)

 is kliniki akusherstva i ginskelegii (mas. - prof. A.G. batylin) Kurakego meditainakogo instiltaja.

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> BB/GG SOURCE CODE: UR/O[13/66/000/001/0135/0135 EWT(d)/T/EWP(1) IJP(c) 00738-67 ACC NR: AP6005387 AUTHOR: Simonenkov, V. I. B ORG: none TITLE: A system of program control with correction of the program. Class 49, No. 177762 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1966, 135 TOPIC TAGS: computer programming, automatic control system, milling machine, p+o-ABSTRACT: This Author Certificate presents a system for a program control and for correcting the analog type program of a milling machine. The information is recorded on a magnetic tape and is based on the method of phase modulation. This system makes it possible to enter a correction into the program in the course of working the parts (if the cutter diameter does not correspond to the design value). The correction is accomplished by using a supplementary track with the correction information for each independent coordinate. The correction information is entered into the program information in the phase accumulator by the cumulative-differential phase bridges. This method allows conducting the summation of the information with a phase difference reaching 180° and insures a minimum of parasitic amplitude modulation. For correction information it is possible to use the coordinate information calculated for a cutter diameter smaller than the rated diameter 621.914.3-503.55 Card 1/2

C0738-67 CC NR: APC nder the onformation	condition tha	t the maximum pho- gram information ange the dimension in the conversion	ase different should not not of the part of a 180° I	ce between exceed 180 urt being : phase shift	the correct The fine processed wi of the prog	ion adjustment thout ram).
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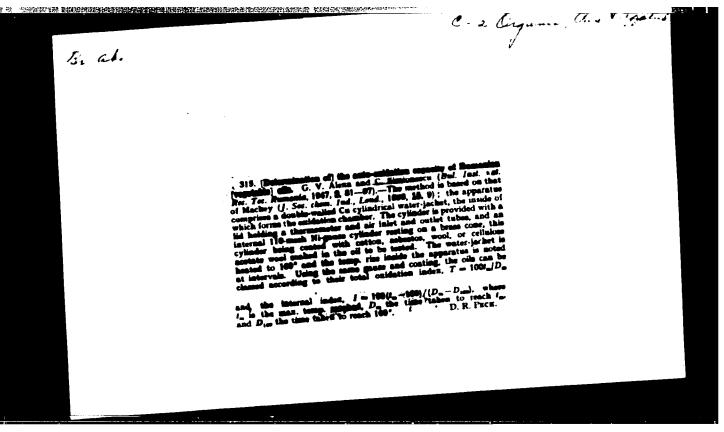
SHEVCHENKO, N.A.; RETIVYKE, Yu.T., SIMOMENKOV, Ye.A.

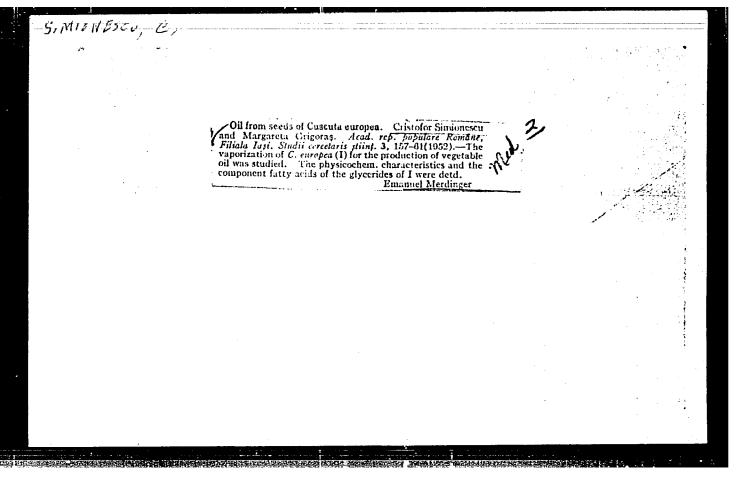
Milling slote with high-pressure docling. Sham. I instr. 35
no.10;28-29 0 164.

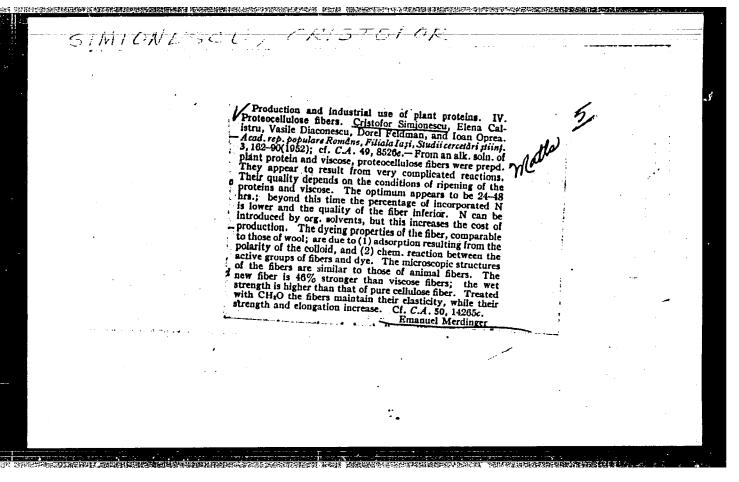
GOLYNETS, Yu.F.; PONOMAREVA, L.I.; Prinimali uchastiye: SIMETSKAYA, N.A.; SIMONENKOVA, H.A.

Estimating the reproducibility of the results of analyses of sulfur-containing substances. Trudy Kom.anal.khim. 13:
(MIRA 16:5)
137-138 '63.
(Sulfur—Analysis)

(Sulfur organic compounds)







THANKS ALL STORY

Rumania/Chemical Technology - Chemical Products and Their Application. Synthetic Polymers. Plastics, I-

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63131

Author: Simionescu, Cristofor; Grigoras, Marg.; Popa, Eugen; Stejaru, Grigore

Institution: None

Title: Industrial Utilization of Vegetable Proteins for the Production of

Plastics. Communication VI

Original

Periodical: Consideratiumi asupra obtinerii si industrializarii proteinelor vegetale mase plastice (Comunicarea VI). Studii si cercetari stiint. Acad. RPR fel Lasi, 1953, 4, No 1-4, 245-256; Rumanian;

Russian and French resumes

Abstract: On condensation of vegetable protein (for example from sunflower or

pumpkin waste) in strongly acid medium with formalin or in a weakly acid or weakly alkaline medium with furfural a condensation product is obtained from which a plastic is produced by mixing with plasticizers (glycerol, tricresyl phosphate, dibutyl phthalate, Na-butyrate

Card 1/2

Rumania/Chemical Technology - Chemical Products and Their Application. Synthetic Polymers. Plastics, I-

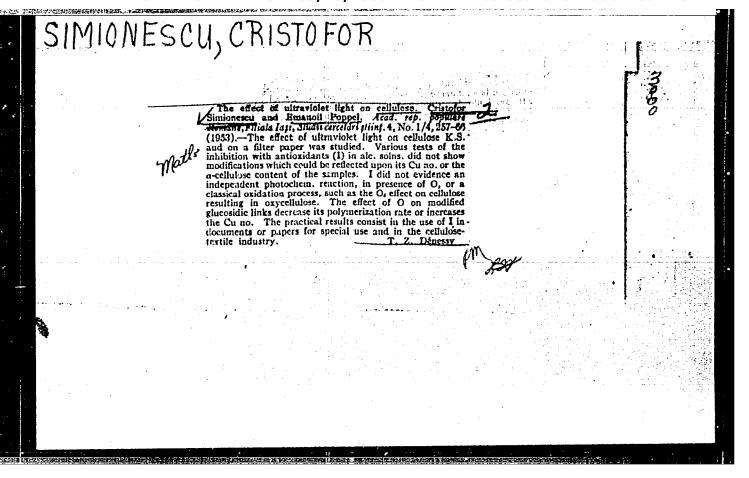
Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63131

Abstract: etc) and filler (glass powder, graphite, carborundum, etc). Fabrica-

tion of articles from these plastics is effected at $90-120^{\circ}$ and pressure of $700-800 \text{ kG/cm}^2$ (for 10-60 minutes). The articles thus ob-

tained have satisfactory electric insulating properties.

Card 2/2



的主题,我们就是我们就是我们就是我们的是我们的,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们也是这些人,我们就是我们的人,我们就 第一章

SIMIOMESCU, C.; CALISTRU, U.: OPREA, I.

"Consideration of the any to obtain and industrialize vegetable proteins: factors which effect the viscosity of proteide solutions". p. 133.
"Journal on science issued by the Insi Branch, Russenian Academy; with French and Russian successes. Quartlerly". (STUDII SI CERCETARI STILMTIMICS: VOL. 5. no. 1/2, Jan./June 1954. Miliala Insi.)

50: Monthly List of East European Accessions, (EEAL), LC, Vol.4, No. 5, May 1965, Uncl.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550710011-0"

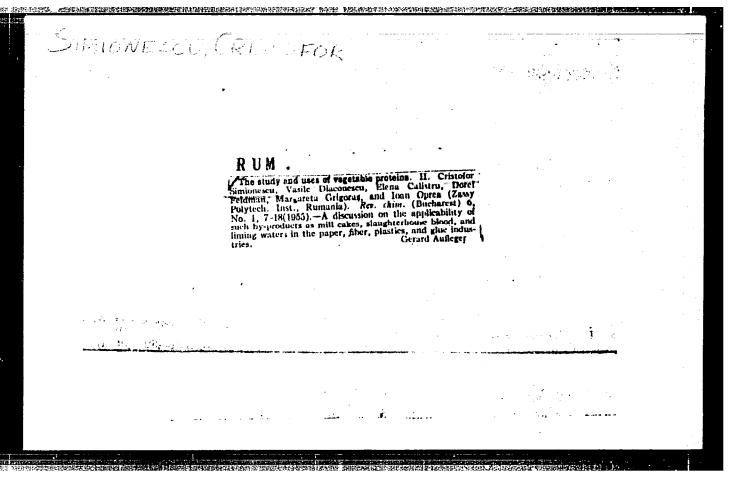
。这个是自己的主要,我们就是我们的一个是一个,我们们就是一个是一个的人,我们们就是一个的人,我们们就是一个一个的人,我们也不是一个的人,我们们就是一个一个人,他

SIMIORNSON, O.: O'LIBERU, R.: YELDEN, D.

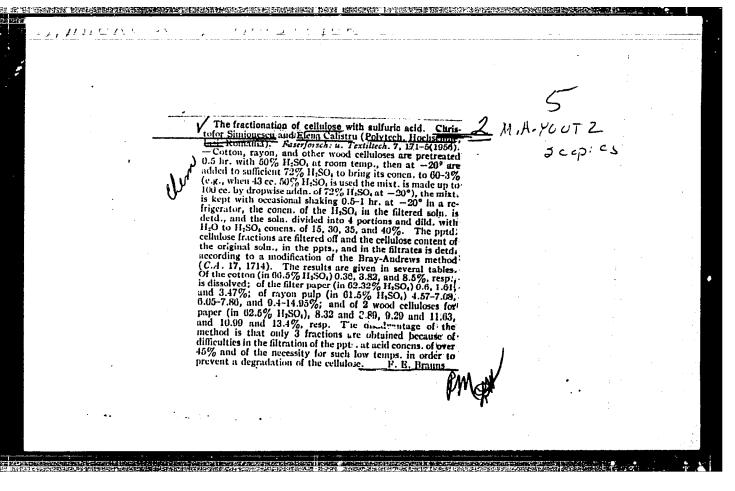
"Consideration of the my to obtain and industrialize vegetable proteins; anion exchange of resins". p. 151. "Journal on science issued by the Indi Branch, R Rumanian to deary; with it ach and mussian summaries. Quarterly". (STUDII SI CE CETARI STITATIFICE, Vol. 5, no. 1/2, Jan./June 1954. # Filiala Issi.)

SO: Montaly List of E t European Accessions, (EEAL), LC, Vol.4, No. 5, May 1965, Uncl.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550710011-0"



Factors influencing the permanence of paper. Cristofor, Simionescu, Emanoil Poppel, and Nikolal Asandel (Polysiano Lech. Inst. Jassy, Moldavia, Romania). Emash. Prom. 130, No. 11, 5-10(1955).—The influence of additives (size and fillers) on the aging of paper was studied. A bleached sulfite was sized with various materials and artificially aged under a quartz lamp (330-750 mµ) at 25° and 65% relative humidity. At 0 hrs. irradiation, paper sized with 2.8% Bewold rosin size and 2.8, 5.0, and 8.0% chlorinated paraffin had a breaking length of 5344, 4918, 4160, and 5080 m.; double folds of 44, 57, 98, and 192; brightness of 45, 44, 43, and 44; and pH values of 5.2, 6.4, 6.5, and 6.5; after 10 hrs. irradiation the breaking length was 4720, 4020, 3207, and 3960; double folds of 31, 15, 6, and 20; brightness, 39, 35, 35, and 35; and pH 4.8, 5.5, 5.8, and 5.8; after 10 hrs. irradiation the breaking length was 4720, 4020, and 3960; double folds 31, 15, 6, and 20; brightness, 39, 35, 35, and 35; and pH 4.8, 5.5, 5.8, and 5.8; after 20 hrs. aging the breaking length was 4320, 3330, 3189, and 3730; double folds 5, 4, 5, and 11; brightness 36, 33, 33, and 34; and pH values 4.6, 5.5, 5.4, and 5.4. Map paper (50% bleached sulfite, 50% rag stock) was sized with 2.8% rosin and 2.8% melamine resin and irradiated. After 0, 10, and 20 hrs. aging the rosin-treated paper had a break-



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Gountary : Rumania H-32

Compagnie :

100. Joan. : 48064

Calistru, E.; Simionescu, N. Simionescu, C.

Institute: Rumanian Academy

11th. : Some Factors Affecting Viscose Stability

oric. 245. : Studii si cercetari stiint. Acad. APR Fil. la

si Chim., 1950 (1957), 7, No 2, 149-190

Abstract: Study of kinetics of viscose ripening at Elevated temperature and on action of different additives. Results were evaluated on the basis of changes in ripeness, viscosity, and degree of esterification. It was found that addition of vulcacite T, as well as of sodium sulfide and urea, retards ripening of viscose; at the same time no changes are observed in the physico-chemical indices of the riber obtained, which is confirmed by experiments at the "Filatura Lupen' "factory. Antioxidants do not interfere with colloidal-chemical ripening Cystin and acetamide are accelerators of the process of ripening of viscose solution.

Card: 1/2

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ac. doun.	: AZDana., do. 16 1950, Fo.	59371
01/104 31/1- 11/01	: Simponescu, C. and Calistru. %. : Act liven ! Ch. the Practiculation of Collectone from Scholics. Communication iff.	Parin
MO. PUR.	; Rev Onim (Rumania), 2. No 2, 223-256 ()	1957)
. 6 13 RACC	if the authors present experimental data in utilization of injust, highly, and mixture erias in the tractionation of cellulos reprecipitation with water and describe perimental precodures used. The precipitor of from 75-49% B, 10, by the addition of a 19-50% B, PO, solution is obtained gimicrosciecular fraction content in the (MC) than precipitation of the C from B, SO,. Thus njiO, when used as a solv	res of these (C) with a the ava- pitation of water until ves a lower cellulose 61.6-65.5%

ORIG. PUB. :	
ORIG. PUB. :	
ALTO HARD : the removery of MC, which	
in the production of artistical figures. The authors note that the method [d, 80, 7] series of C with cellulose authors have shown that the remind processing is detected by the averaged by the averaged for 20, and 20, and 3, 20, and	dicial fibers. When more accurately deter- the desirability of us- in the comparison of a so produced abroad. The se otherior of C during semined by the presence of solutions of it St.

H-24

RUMANIA / Chemical Tochnology, Chemical Products and Their Application. Chemical Wood Products. Hydrolysis

能的手指**的"在是我们的**的影响"的**对话,这个是是我们的**我们就是我们的,我们就是这个人的,只是这个人的,我们就是这个人,这个人们也是我们的一个人,这个人们也是

Industry.

: Ref Zhur - Khimiya, No 5, 1959, No. 17067 Abs Jour

: Simionescu, C.; Feldman, D. Author

: Investigation of the Primary Hydrolysis of Reed. Part I Inst Titlo

: Bul. Inst. politehn. Iasi, 1957, 3, No 1-2, 91-100 Orig Pub

: Experiments pertaining to the primary hydrolysis of hemicellulose, that follows hydrolysis of cellulose, Abstract

were conducted. A stem portion between the knots of reed was used as raw material. Hydrolysis was performed under laboratory conditions with water, having ratios variod in the following limits: 1:2; 1:5; 1:10; 1:7.5; 1:4; 1:2, and pressure from 5 to 9 atm, while the time of process was held constant. The hydrolyzed material yield

Card 1/2

CIA-RDP86-00513R001550710011-0" **APPROVED FOR RELEASE: 08/23/2000**

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SIMIONESKIL L. [Simionescu, Christophor] (Rumynskaya Marodnaya Respublika);

KALISTRU, K. [Calistru, Constantin] (Rumynskaya Marodnaya Respublika).

Scientific cooperation of Russian and Rumanian chemists. Vop. ist.
est. i tekh. no. 4:172-178 '57. (MIRA 11:1)

1. Chlen-korrespondent AN Rumynskoy Narodnoy Respubliki (for Simionescu).

(Russia--Relations (General) with Rumania)
(Rumania--Relations (General) with Russia)
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SIMICNESCO Ch.

RUMANIA/Chemical Technology. Chemical Products and Their K-5

Applications. Cellulose and Cellulose Products.

Paper.

Abs Jour: Ref Zhur-Khimiya, 1958, No 1, 3283

Author : Simionescu, Feldman, Grigoras

Inst

Title : Lignin Petermination in Reed by Klason's Method Modified

by F. P. Komarov

Orig Pub: Celulosa si hirte, 1957, 6, No 2, 51-53

Abstract: It was established that the Klason-Komerov method

was applicable to lignin determination in reed provided that cettain modifications proposed by the

author be introduced.

Card : 1/1

SIMIONESCU, C.

"Some current problems of macromolecular chemistry discussed at the 9th Conference on Physics and Chemistry of Macromolecular Combinations, held in Moscow in 1957."

p. 376 (Celuloza Si Hirtie) Vol. 6, no. 11, Nov. 1957 Bucharest, Rumania

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

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STHTONESON, C.; CALISTRU, C.

Life and works of Petru Poni. p. 13.

STUDII SI CERCETARI STIRVTIFICE. CHIME. Iasi, Rumania Vol. 8, No. 1, 1957.

Monthly List of East European Accession (EEAI). LC, Vol. 8, No. 9, Sept. 1959 Uncl.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550710011-0"

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CIA-RDP86-00513R001550710011-0 "APPROVED FOR RELEASE: 08/23/2000

Abs Jour : Ref Zhur-Khimiya, No 6, 1959, 22002

: Asandei, N., Vasiliu, Gh., Simionescu, Cr. : Rumanian Academy, Iasi Branch. : The Radioactivity of Thorium and Uranium Author

Inst

Title

Compounds of Carboxymethylcellulose.

Orig Pub : Studii si cercetari stiint. Acad. RPR Fil.

Iasi. Chim., 1957, 8, No 1, 201-210

Abstract : For investigating the structure of cellu-

lose and its derivatives, a method was developed for determining the degree of replacement of celluloseglycol acid by means of the utilization of the natural radioactive properties of thorium and uranium compounds of carboxymethylcellulose. Also, an

Card : 1/2

Obtaining cellulose in high yield. V. Diaconescu, Emanuel Poppel, the Nichitus, Erna heiss, Elena Calistru, Dorel Feldman, C. Latase, N. Asandei, the Rozmarin, and Cristofor Simionescu.

Bul. inst. politeh, Iasi (N.S.) h, 213-26(1956).—High yields of celiulose (up to 65%) are obtained by digesting 6h00 kg. wood with hat (570 kg.), and 70 kg. Na28, so that the total alky.

Is 13.2% (on the wood basis). The so-called active alky. Is

11.67%. The digestion required 2 hours and 10 min. at max. pressure, maintaining this for another 10 min., degassing for 5 min., and then wishing for 6 hrs. The pulp contained 77.57% cellulose, the 6% light, 6.30% pentosans, and 70.69% a-celulose.

Ealla Paecht-Horowitz

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1930, 30. ASS. JOUR. : AZZMin., Lo. 21 22002

Chalonesca, C. and Popuel, E. That solffeennic Sasultute

3 Metuods Used in the Determination of the Degree

of Sizing of Paper

9310. MOA. : Bul Inst Politechn Lass, 4, No 1-2, 227-236 (1958)

7 3 2 3 3 T to the results obtained from the determination of

the paymen of excing of unpresent and present inners sized with Bevord size by the mark method, Yaywe method, and by the electrolytic method (EM) are compared. In the EM the region of capillary penetration by the solution and the region of penetration into the intermiceller space [sic] were studied. A modified EM has been found to sultable for the evaluation of the quality of papers which do not differ earkedly in degree of sizing. A diagram of the apparatus is given.

From authors' summary

25 MD: 1/1

RUMANIA/Wood Chemical Production. Hydrolysis Industry.

: Ref Zhur - Khimiya. No 19, 1958, 65652 Abs Jour

APPROVED FOR RELEASE #108 123 / 2000 for CIA RDP86-00513R001550710011-0"

Inst

Title

: Determination of Lignin in Reed by the Kyurshner and

Shveytspakherovaya Method.

Orig Pub

: Celuloza si hirtie, 1958, 7, No 2, 71-72.

: On the basis of an experimental comparison with the Abstract

Klason-Komarov method, a conclusion has been made concerning the possibility of the utilization of the Kyurshner- Shveytspakherovaya method for the determina-

tion of lignin in reed.

See RZhKhim, 1955, 19089, 29285.

Card 1/1

19

1)

autnor : Simionescu, Cr., Calistru, E., Feldman, D., Simionescu, N.

Inst Title

Cellulose from Reed, Its Chemical Processing and the Production Therefrom of Synthetic Fibers of a Viscose Silk Туре.

Orig Pub : Celuloza si hirtie, 1958, 7, No 5, 171-177.

	4,37	Chamier Technology, Chemical Products and
ASS.	. JOUR. :	Thear Applications. Cellulose and Its * : RZKhim., No. 23 1919, No. 84325
AUT.		Simmeson, C.; Calistru, E.
Televi		Viscose Cellulose Derived from Reed
log <i>u</i>	3. <i>M</i> m. :	Colul. si hirtie, 1952, 8, No 4, 111-117
G 35		Besed on the ivestigation of morphological structure and on uniqueness in the degree of polymerization of macromolecules of the need viacose cellulose (VC), the conclusion was made that the reed VC quality is not inferior to VC derived from wood pulp. The morphological structure was investigated by the K. Heide method, employing 80% HgPO4 for the wood VC and 83% HgPO4 for the reed VC, as well as with 60% HgPO3. The degree of polymeriza-
		*Derivatives. Paper.
GA3	D:	1/2

GATAGORY :

ABS. JOUR. : AZANIW., No. 03 1959, No. 84835

AUTHOR :
SEW. :
TITLS :

ABCIRACT : Zation was determined from solutilities in figiful and by a special fractionation method of the solutions, employing the precipitation with HaSOq at low temperatures, that insures a messibility of finding criteria for the classification of celluloses depending on the fractions entering solution and on the initial acidity of the medium.

SIMIONESCU, Cristofor; FRIDMAN, Dorel

Study of the prehydrolysis of reed grass. Note III. Studii chimie

(EEAI 9:5)

1. Filiala Iasi a Academiei Republicii Populare Romine.
(Grasses) (Hydrolysis)

Iasi 10 no.1:79-88 '59.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550710011-0"

SIMIONESCU, Cr., prof; CALISTRU, Elena; SIMIONESCU, Natalia

经设计制的特别 医环间性结晶性生殖性性神经不足,但是我们因因,他们是不可能的人,但是这一个时间,我就是一个时间的人,不可能是一个人的一个人,但是我们的人,这一个

Studies on the lignin extracted from a beech tumor. Studii chemie Iasi 10 no.2:303-309 '59. (EEAI 10:1)

1. Redactor responsibil adjunct, Studii si cercetari stiintifice, Chimie. Membru correspondent al Academiei Republicii Populare Romine (for Simionescu, Cr.)
(Beech) (Lignin)

SIMIONESCU, Cristofor, prof.; DIACONESCU, Eleonora; FELDMAN, Dorel

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Contributions to the knowledge of the chemical composition of reed. I. Esters of glycerin and higher alcohols. Studii chemie Iasi 10 no.2:311-321 *59. (EEAI 10:1)

l. Redactor responsabil adjunct, Studii si cercetari stiintifice, Chimie, Membru correspondent al Academiei Republicii Populare Romine (for Simionescu)
(Grasses) (Glycerol) (Esters) (Alcohols)

SIMIONESCU, Cristofor, prof; GRIGORAS, Margareta

On the variation of the main chemical components of some species of Rumanian trees. Studii chemie Iasi 10 no.2:323-337 '59. (EEAI 10:1)

1. Academia Republicii Populare Romine, Filiala Iasi; Insitutul de Chimie "Petru Poni." 2. Membru corespondent al Academiei Republicii Populare Romine (for Simionescu)

(Rumania -- Trees) (Cellulose) (Lignin)

CIA-RDP86-00513R001550710011-0" APPROVED FOR RELEASE: 08/23/2000

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i ima, ive,		Papir & Calmi, 17, No. 3, 82-06 (1989)	
ELSTPACE	ì	The authors have investigated the morp and molecular attracture of dall-alone (Phrographs lommunus It is shown that in all respects rotal to wood G. The polydisperoreas (an important commute the production of richase Cr in centure that an mood G.	C) inoc . The C is .apleudian .apleudia

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SIMIONESKU, Kristofor Z. [Simionescu, C.], prof.

Paper made of reeds. Nauka i zhizn' 26 no.9:33-34 S '59.

(MIRA 13:1)

1. Chlen-korrespondent Rumynskoy AN, rektorimweduyushchiy kafedroy tsellyulozy, bumagi i iskusstvennogo prirodnykh makromolekul Yasskogo filiala AN.

(Rumania--Paper industry) (Reed (Botany))

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550710011-0"

SIMIONESCU, Cristofor; DIACONESCU, Eleonora; FELDMAN, Dorel

Contribution to the study of the chemical composition of reed. I. Esters of glycerin and higher alcohols. Rev chimie 5 no.1:57-65 '60. (EEAI 10:2)

1. Section de Chimie Macromoleculaire de l'Institut de Chimie *P.Poni* de l'Academie de la Republique Populaire Roumaine, Jassy. 2. Academie de la Republique Populaire Roumaine, Membre correspondant de l'Academie de la Republique Populaire Roumaine, Comite de redaction, Revue de chimie (for Simionescu)

(Grasses) (Esters) (Alcohols) (Glycerol)

是在这些是可能是有理论的是是是这种的,我们就是一个人的,我们也是不是一个人的,我们也是一个人的,我们也是一个人的,我们也是一个人的,他们也是一个人的人的人,他们

SIMIONESCU, Cristofor, prof.; ASANDEI-CERNATESCU, Agata

On the chemical composition of some ligneous species of Rumania (Pinus montana and Juniperus communis) Studii chim Iasi 11 no.1: 87-96 '60. (EEAI 10:3)

1. Membru corespondent al Academiei R.P.R., Comitetul de redactie, Studii si cercetari stintifice, Filiala Iasi, redactor resp. ad junct (for Simionescu)

(Rumania--Pinus mentana) (Rumania--Juniper)

SIMICNESKU, K. [Simionescu, C.]; KALISTRU, E. [Calistru, E.]; Simionesku, Nataliya [Simionescu, Natalia]

HENDELLE STEERING TO SELECT THE SECOND STEERING STEERING

Study of some chemical changes during the development of the tumors caused by Bacterium tumefaciens. Rev chimie 6 no.2: 235-243 '61.

1.Otdelenige prirodnykh makromolekul Khimicheskog instituta
"Petru Poni", Yaskiy filial Akademii RNR 2. Chimidorrespondent
Akademii RNR. Membre du Comité de rédaction, "Royue de chimie"
(for C. Simionescu)

SIMICNESCU, Cr., prof.dr.ing.; CALISTRU, E., ing., candidat in Stiinte Tehnice.

Comparative study on the chemical pulps from Arundo-donax and Phragmites communis. Cel hirtie 10 no.7/8:268-276 Jl-Ag *61.

1. Membru Corespondent al Academiei R.P.R. (for Simionescu).

POPPEL, E., ing.; DIACONESCU, V., prof.ing.; SIMIONESCU, Cr., prof.dr.ing.

Chemical, technological, and energetic research in the field of high efficiency sulfate pulps. Cel hirtie 10 no.9:322-328 S'61.

1. Membru corespondent al Academiei R.P.R. (for Simionescu).

Present problems of cellulose chemistry and technology. Cel hirtie 10 no.10:337-341 0'61

经运送经济社会运动的支撑运动,我们就<mark>是国际的企业的</mark>是是国际的,他们会不是一个主义的对象的,是一个人,是不是一个人,也不是有过程的的,他们也不是一个人,也是这种人的一个人

1. Membru Corespondent al Academiei R.P.R.

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SIMIONESCU, Cr., prof.dr. ing.; CALISTHU, E., candidat in Stiinte Tehnice; MIHAILESCU, S., ing.

Chemical cellulose obtained from reed (Phragmites communis) grown in the Danube Delta. Cel hirtie 10 no.10:341-350 0.61

1. Membru Corespondent al Academiei R.P.R. (for Simionescu).

GRIGORAS, M., ing.; ASANDEI-CERNATESCU, A., ing.; SIMIONESCU, Cr., prof.dr. ing.

Some observations on the main components of century-old trees. Cel hirtie 10 no.10:355-360 0°61

1. Membru Corespondent al Academiei R.P.R. (for Simionescu).

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SIMIONESCU, Cr., prof. dr. ing.; POPPEL.E., ing.; ROZMARIN, Gh., ing.

Aspects of the photochemical and thermal degradation of some pulps and paper products. Cel hirtie 10 no.11:328-403 N'61

1. Membru Corespondent al Academiei R.P.R. (for Simionescu).

SIMIONESCU, Cristofor, prof.; CALISTRU, Elena

Studies on the chemical transformations during the development of the tumors produced by Bacterium tumefaciens. II. Chromatographic study of sugars. Studii chim Iasi 12 no.2:227-232 '61.

1. Institutul de chimie "P.Poni," Sectia de chimie macromoleculara.

2. Membru corespondent al Academiei R.P.R., Membru al Comitetului de redactie si Redactor responsabil adjunct, "Studii si cercetari stiintifice, Chimie" (for Simionescu).

SIMIONESCU, Cristofor, prof.; SIMIONESCU, Natalia

Chemical transformations in a tumor of Prunus cerasifera var. mirabolana. Studii chim Iasi 12 no.2:233-239 '61.

1. Institutul de chimie "Petru Poni" al Academiei R.P.R., Filiala Iasi, Sectia de chimie macromoleculara. 2. Membru al Comitetului de redactie si Redactor responsabil adjunct, "Studii si cercetari stiintifice, Chimie" (for Cristofor Simionescu).

SIMIONESCU, Cristofor, prof.; CALISTRU, Elena; SIMIONESCU, Natalia; HRIHOROV, Marta

是此情况上,这种的特别的特别的特别的特别的主义,可以是一种的主义,但是一种的主义,但是一种的主义,但是一种的主义,但是一种的主义,但是一种的主义,但是一种的主义, "我们是一种的主义,我们就是一种的主义,我们就是一种的主义,我们就是一种的主义,我们就是一种的主义,我们就是一种的主义,我们就是一种的主义,我们就是一种的主义,也

Action of antioxidants on the process of tumor growth in vegetables. Studii chim Iasi 12 no.2:241-249 '61.

1. Filia Iasi a Academieie R.P.R., Institutul de chimie "P.Poni," Sectia de chimie macromoleculara. 2. Membru corespondent al Academiei R.P.R., Membru al Comitetului de redactie si Redactor responsabil adjunct, "Studii si cercetari stiintifice, Chimie" (for Cristofor Simionescu).

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AUTHORS:

Simionescu, Cr., Professor, Corresponding Member of the Rumanian Academy, Feldman, D., Instructor, and Vasiliu, Cleopatra, Assistant

TITLE:

Cellulose and graft cellulose derivatives

PERIODICAL:

Revista de Chimie, v. 12, no. 9, 1961, 525 - 538

TEXT: Based on a great number of Eastern and Western publications, the article presents a comprehensive description of the synthesis and properties of graft copolymers. The authors studied copolymers based on (1) chain transfer; (2) formation of reactive groups in the primary chain and (3) formation of active centers in the primary chain. The first method is based on the solution of the (A)n polymer in a suitable solvent, in which the polymerization of the B monomer is conducted. The basis of the second method is the presence in the chain of the primary polymer of a reactive functional group capable of initiating the polymerization of any monomer. Primary chains with macroradical characteristics may also be produced by mechanical destruction, supersonic vibration, electric discharges, Y-radiations, etc. With regard to these methods, the authors refer to

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some Western, and the following Soviet-bloc publications: A. Chapiro (Ref 5: Mezhdunarodnyy simpozium po makromolekulyarnoy khimii /International symposium on macromolecular chemistry/, Moscow, 1960, section III-a, 156 - 163); A.A. Berlin, A.G. Kronman, D.M. Yanovskiy, and V.A. Kargin (Ref 31: Vysokomolekulyarnyye soyedineniya, nr. 12, 1960, 1839 - 1844); H.U. Usmanov (Ref 4: Mezhdunarodny) simpozium po makromolekulyarnoy khimii, Moscow, 1960, Section III-a, 344 - 348); H.U. Usmanov (Ref 6: Mezhdunarodnyy simpozium po makromolekulyarnoy khimii, Moscow, 1960, Section III, 170 - 175); I.P. Losev and E.B. Trostyanskaya (Ref 7: Khimiya sinteticheskikh polimerov (Synthetic Chemistry of Polymers), Goshimizdat, Moscow, 1960, 188 - 192); M. Imoto (Ref 9: Khimiya i tekhnologiya polimerov [Chemistry and Technology of Polymers], 2. 1957, Inlitizdat, p 131); M.S. Akulin, N.I. Parlashkevich and I.N. Kogan (Ref 10: Plasticheskiye massy, no. 6, 1960, 2 - 3); and, H.U. Usmanov and C.A. Azimov (Ref 16: Vysokomolekulyarnyye soyedineniya, no. 10, 1960, 1,459 - 1,462). In most cases homopolymers form concomitantly with the grafting reaction. The kinetics of these two simultaneous reactions could be studied by separating the individual polymers from the reaction medium. Such studies on the grafting of styrene on polvisobutene were conducted

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表现的表现的现在分词,我们就是我们的一个人,我们就是我们的,我们就是我们的一个人,我们就是我们的一个人,我们就是这一个人,我们就是这一个人,我们就是这一个人,我

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by J. Sebban-Danon (Ref 21: Mezhdunarodnyy simpozium po makromolekulyarnoy khimii, Moscow, 1960, Section III, 177 - 182) and several other Western scientists. Chapter 4 of the article dealing with the production of graft cellulose copolymers, was presented at the plenary session of the institutul de chimie "P. Poni" ("P. Poni" Chemical Institute) at the Iaşi branch of Rumanian Academy on June 4, 1961. The synthesis of copolymers grafted on cellulose chains or other polysaccharides is treated little in the literature. The authors refer to a few Western publications and to H. U. Usmanov (Ref. 4). To obtain cellulose products with well-defined characteristics, the authors have grafted polyacrylonitrile on a number of cellulose derivatives, e.g. carboxy-methyl cellulose (CMC) with T=0.9, by using for the initiation of the reaction energy produced by ultraviolet rays, ultrasonic waves, X-rays, etc. As to grafting of CMC, the only literature known is a paper by Z.A. Rogovin, V.A. Derevitskaya, Tun Suni, Veigan Chizhan, and L.S. Galbraikh Abstracter's note: the last three names are written Suni Tun, Cijan Veigan and Galbraih in the Rumanian original (Ref 33: Mezhdunarodnyy simpozium po makromolekulyarnoy khimii, Moscow, 1960, Section III, 302 - 308) who obtained grafted copolymers of CMC and polyenanthalamide by copolycondensation of the methyl ester of amino-enanthic acid with the methyl ester

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of CMC, or of the CMC amide with the methyl ester of amino-enanthic acid. For the production of graft cellulose derivatives, 30 - 40-A-thick CMC films were introduced into a slightly acid aqueous solution, containing the monomer and a ceric salt. The polymerization of the monomer on CMC chains was achieved under the action of energy sources mentioned above. The grafting of the cellulose and of its derivatives presented a topochemical characteristic. The CMC-copolymer, whose homopolymer has been removed by rinsing with dimethyl formamide at a normal temperature, is a brittle product, less transparent then the initial CMC film. The grafted film begins to turn yellow when heated to 170°C. At 210°C its color changes to dark brown and at more then 220°C it deteriorates considerably, while at 245°C the material will be fully carbonized. The graft copolymer is stable against 80%-sulfuric acid solutions. In 90%-sulfuric acid, a viscous solution of grafted carboxy-methyl cellulose is produced which can be re-precipitated by dilution. By increasing the grafting degree, the stability of CMC/g increases also against 90%-sulfuric acid. The grafted polymer dissolves in 37%-hydrochloric acid, no viscous solution being produced. It is insoluble in 58%-phosphoric acid and swells under the influence of concentrated solutions of $80-90\%-H_3PO_4$. Evidence of the formation of a chemical

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compound by the action of various reactants on cellulose may also be obtained by X-ray research. In conclusion the authors emphasize that there is a universal trend to change the characteristics of natural and synthetic polymers, to improve their properties and to widen the range of use. Z.A. Rogovin and V.A. Kargin (Ref 35: Khimicheskaya nauka i promyshlennost' 6, 1959, 691) clearly pointed out the basic directions for the improvement of the quality of cellulose material used as natural polymers. There are 10 figures, 2 tables and 35 references: 20 Sovietbloc, 11 non-Soviet-bloc and 4 unidentified. The four most recent references to English-language publications read as follows: H. Sobue, Y. Tazima and Y. Shimo-kawa: Journal of Applied Polymer Sci., vol. IV, no. 11, 1960, 244; Y. Shimokawa and K. Tomioka: Journal of Polymer Sci., vol. XLIV, no. 143, 1960, 195 - 211; E.G. Corgain, T.D. Pendle and D.T. Turner: Journal of Polymer Sci., vol. XXXIX, no. 135, 1959, 419 - 426; and H. Kamagowa and T. Sakiya: "Graft polymerization of acrylamide onto cotton", - Paper sent for publication in the Buletinul Institutului politehnic din Iasi (being published) in 1960.

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ASSOCIATION: Institutul Politehnic-Iași, Catedra de celuloză, hîrtie și fibre artificiale (Iași Polytechnic Institute, Department of Cellulose, Paper and Artificial Fibers)

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SIMIONESKU, K. [Simionescu, C.]

Concerning the problem of the inhibiting action of the natural and synthetic antioxidants in the process of cellulose decomposition. Rev chimie 7 no. 1: 521-529 162.

 Chlen-korr. Akademii RNR. Institut khimii "Petru Poni" Akademii RNR, Yassy.